

SECRET

1 July 1966

ELECTROCOLOR SYSTEM STUDY - Explanatory Notes:

1. Foliage Penetration -

- a. Staff Study, page 1, paragraph 2b.
- b. This is a weak point - it would have been better to leave it out, but it is logical to assume that CD film would assist in the detection of man-made objects through holes in foliage by accentuation of the tonal difference through the difference in ☐ reflectance.

25X1

2. PSD Processor Test Term -

- a. Staff Study, page 1. paragraph 2d.
- b. The Electrocolor Printer-Processor was installed in PSD in April 1965 and taken out in December 1965. It was under evaluation approximately one-quarter of that time due to workload conflicts in PSD. The cost of renting the equipment during that period was ☐

25X1

3. Transparencies by Plating -

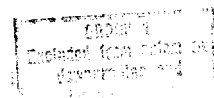
- a. Tab B, Technical Discussion, last page, paragraph "L".
- b. Production of a transparent copy by Electro plating is neither simple nor impossible. It will be much less expensive, however to first prove the value of the basic principle with the existing substrate. ☐ has done some investigation on the transparency development. Two possible methods for development are:

25X1

- (1) peeling off the plated dyes by first evaporating a transparent coating on them - then remounting them on a transparent substrate. This technique is used in the production of sheet plastic materials and has been highly automated.
- (2) developing a suitable photo-conductive transparent medium to act as the electrode and the substrate ☐ has such a material in a very early development stage - it is highly proprietary. In spite of these two potential solutions we can in no way assure that a practical transparent system can be achieved.

25X1

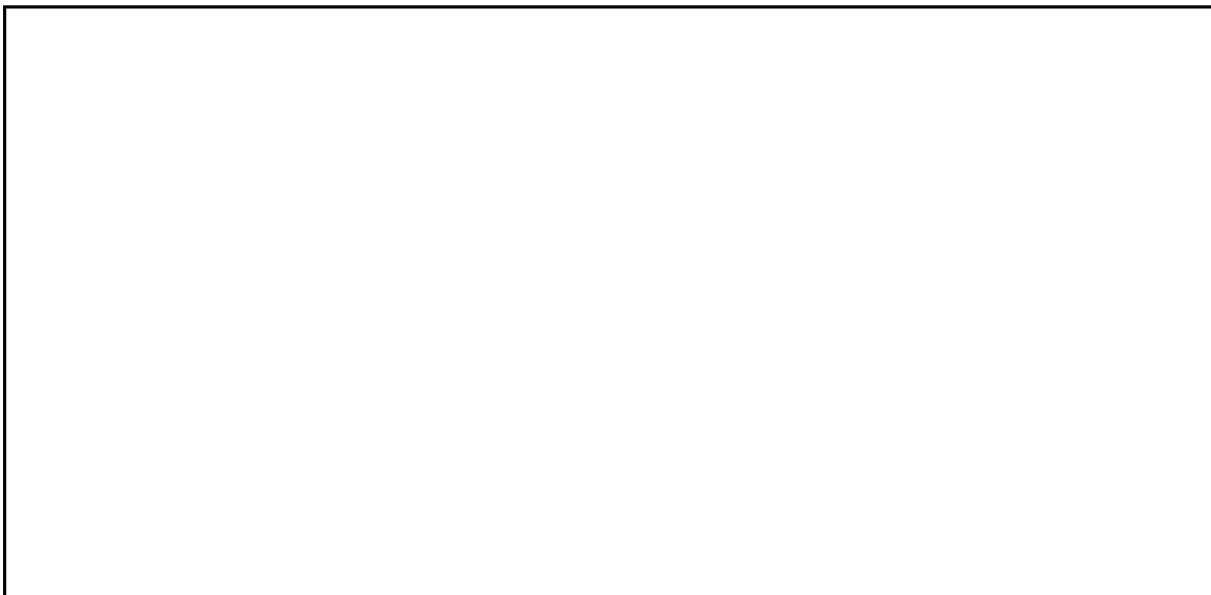
SECRET



SECRET

4. Define "reciprocity failure"

- a. Technical Discussion, Tab B, first page.
- b. This paper is for technical consumption. It is not in any case appropriate to explain such a basic term. If the reader did not understand - and wanted to know - any basic reference on photography would explain the concept.



25X1

- a. Staff Study, page 2, paragraph 3d.

- b. [] is exclusively dedicated to T&E. [] has their own interest in the material which would prejudice the evaluation.

25X1

7. What is relationship of AF Electrocolor Evaluation contract.

- a. Staff Study, page 2, paragraph 3f.
- b. This point is covered in the reference paragraph. We have a copy of the report.

SECRET